TEST REPORT

REPORT NUMBER: B18W50279-EMC

ON

Type of Equipment: LTE CAT-M1/NB-IOT/GPRS/EDGE/GNSS MODULE

Type of Designation: SIM7000G

Manufacturer: Shanghai SIMCom Wireless Solutions Ltd.

ACCORDING TO Subpart B, PART 15, RADIO FREQUENCY DEVICES , Aguest 24, 2018 ICE-003, Issue 5 ,August 2012

Chongqing Academy of Information and Communcations

Month date, year August, 26, 2018

Signature

Zhang Yan Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.

Report No.: B18W00279-EMC

FCC ID: 2AJYU-SIM7000G

Report Date: 2018-08-26

Test Firm Name: Chongqing Academy of Information and

Communcations Technology

FCC Registration Number: CN1239

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part 15 and ICE-003 Issue 5. The sample tested was found to comply with the requirements defined in the applied rules.

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1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance

with FCC CFR 47 Part15 and ICE-003 Issue 5.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been

made. See Annex C.

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party as a result of decisions made or actions based on this report.

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1	.2	Testers

Name:	Bai Qingqing
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Position: Engineer

Department: Department of EMC test

Date: 2018-08-26

Signature:

Editor of this test report:

Name: Zhang Luyang

Position: Engineer

Department: Department of EMC test

Date: 2018-08-26

Signature:

张陆洋

Technical responsibility for area of testing:

Name: Zhang Yan

Position: Manager

Department: Director of the laboratory

Date: 2018-08-26

Signature:

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1.3 Testing Laboratory information

1.3.1 Location	
Name:	Chongqing Academy of Information and Communcations
	Techonology
Address:	No. 8, Yuma Road, Chayuan New City, Nan'an District
	Chongqing
	P. R. CHINA, 401336
Tel:	+86 23 88069965
Fax:	+86 23 88608777
Email:	shouli@cqeips.com
1.3.2 Details of accreditat	ion status
Accredited by:	
Registration number:	
Standard:	
1.3.3 Test location, where	different from section 1.3.1
Name:	
Address:	

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1.4 Details of applicant or manufacturer

1.4.1 Applicant	
Name:	Shanghai SIMCom Wireless Solutions Ltd.
Address:	Bldg. B, SIM Technology Bldg., No. 633, Jinzhong Rd
	Changning Dist., Shanghai, P.R.China
Country:	China
Telephone:	+86-21-31575182
Fax:	
Contact:	Haisheng zeng
Telephone:	+86-21-31575182
Email:	liyongsheng@simcom.com
1.4.2 Manufacturer (if different	ent from applicant in section 1.4.1)
Name:	
Address:	
City:	
Country:	
1.4.3 Manufactory (if differe	nt from applicant in section 1.4.1)
Name:	
Address:	
City:	
Country:	

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2 Test Item

2.1 General Information

Manufacturer: Shanghai SIMCom Wireless Solutions Ltd.

Name: LTE CAT-M1/NB-IoT/GPRS/EDGE/GNSS MODULE

Model Number: SIM7000G

Serial Number: 869951030004190

Production Status: Product
Receipt date of test item: 2018-07-03

2.2 Outline of EUT

The EUT,SIM7000G is a model supporting GSM 800/PCS 1900/NB-IoT Band2/5/12/13/17/26 and CAT-M Band2/4/5/12/13/26.

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Туре	Serial No.	Remarks
A	Adaptor	Someting High Electric (Xiamen) Company	P-050B-050200	1	None

2.5 Other Information

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3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

Configuration1		
Specification Clause	Name of Test	Result
15.109(a)/ ICE-003	D. P. t. 1E	D
Issue 5 §6	Radiated Emission	Pass

Test equipment Used:							
Numbe r	Description	Manufacturer	Model Number	Serial Number	Cal Due	State	
1	EMI Test Receiver	R/S	ESU26	100367	2019-03-01	Normal	
2	Ultra Broadband Antenna	R/S	VULB 9163	vulb9163— 544	2018-12-20	Normal	
3	Double- Ridged Horn Antenna	R/S	HF907	100357	2018-12-28	Normal	
4	Fully- Anechoic Chamber	ETS	11.8m×6.5m ×6.3m		2020-08-20	Normal	

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4 Test Results

4.1 Radiated Emission

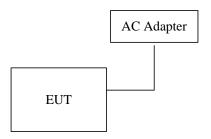
Specifications:	15.109(a)/ ICE-003 Issue 5 §6			
Date of Tests	2018-07-03-2017-07-12			
Test conditions:	Ambient Temperature:15°C-35°C			
	Relative Humidity:30%-60%			
	Air pressure: 86-106kPa			
Operation Mode	Normal			
Test Results:	Pass			

Limit Level Construction:

Frequency Range (MHz)	Quasi-Peak (dBuV/m)		
30-88	40		
88-216	43.5		
216-960	46		
Above 960	54		

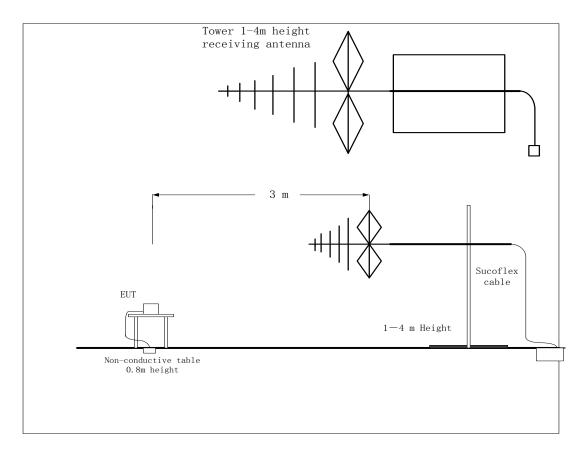
Frequency Range (MHz) Peak (dBuV/m)		Average (dBuV/m)
Above 1000	74	54

EUT Setup:



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Test Setup:



Test Method:

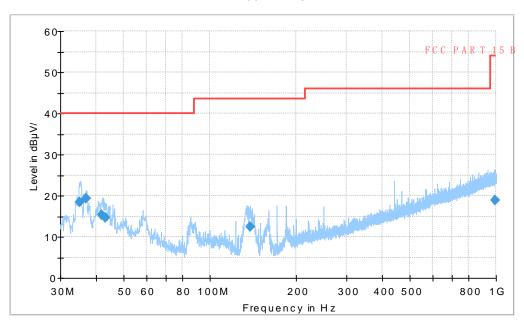
For 30-1000MHz, the EUT was placed on the top of a rotating 0.8-m table above the ground at a semi-anechoic chamber. The distance between the EUT and the received antenna was 3 meters. The table was rotated 360 degree and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement. Tested in accordance with the procedures of ANSI C63.4-2014, section 8.3.

For 1000-18000MHz, the maximal emission value was acquired by adjusting the antenna height, and the table was rotated 360 degree to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement.

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Test Data

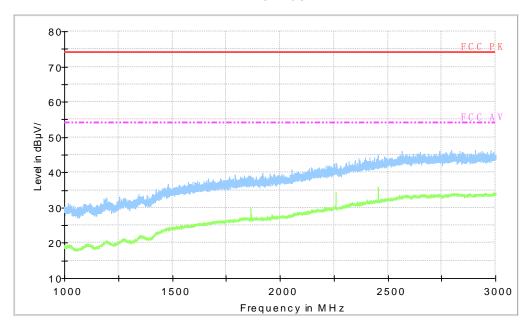
RE 30MHz-1GHz



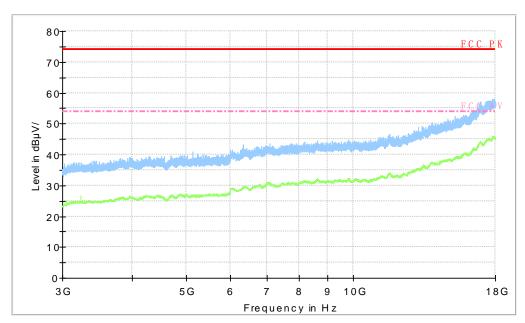
Frequency	QP	Mea.Time	RBW	Height	Polarity	Azimuth	Margin	Limit
MHz	dBuV/m	ms	KHz	cm		deg	dB	dBuV/m
35.038000	18.5	1000.0	120.0	115.0	V	90.0	21.5	40.0
36.890000	19.3	1000.0	120.0	115.0	V	90.0	20.7	40.0
41.922000	15.4	1000.0	120.0	115.0	V	90.0	24.6	40.0
43.104000	14.7	1000.0	120.0	100.0	V	0.0	25.3	40.0
138.552000	12.4	1000.0	120.0	185.0	Н	270.0	31.1	43.5
990.591000	19.0	1000.0	120.0	100.0	V	270.0	35.0	54.0

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RE 1GHz-3GHz



RE 3GHz-18GHz



Test photo

See the Pic1~2 in document" SIM7000G_EMC Test Setup Photos".

Chongqing Academy of Information and Communications Technology Report No.: B18W00279-EMC Annex A External Photos See the document" SIM7000G -External Photos". Annex B Internal Photos See the document" SIM7000G-Internal Photos". ANNEX C Deviations from Prescribed Test Methods No deviation from Prescribed Test Methods. The End of this Report